



Docket No. 00279.112US1

24/c

### Clean Version of the Amended Claims

## METHOD AND APPARATUS FOR TREATING IRREGULAR VENTRICULAR CONTRACTIONS SUCH AS DURING ATRIAL ARRHYTHMIA

Applicant: David B. Krig et al.

Serial No.: 09/316,515

Please replace claims 1, 28, 58, 63, 91 with their corresponding claims, as amended, below:

C1  
Sub  
D1

1. (Amended) A method, including:  
obtaining V-V intervals between ventricular beats;  
computing a first indicated pacing interval, for a most recent V-V interval concluded by a paced beat and for a most recent V-V interval concluded by a sensed beat, by averaging a most recent V-V interval duration with a stored previously-computed value of the first indicated pacing interval; and  
providing pacing therapy, based on the first indicated pacing interval.

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C2  
Sub  
D1

28. (Amended) A method, including:  
detecting an atrial tachyarrhythmia;  
obtaining V-V intervals between ventricular beats;  
computing a first indicated pacing interval by averaging a most recent V-V interval duration with a previous value of the first indicated pacing interval; and  
providing pacing therapy, based on the first indicated pacing interval, when the atrial tachyarrhythmia is present.

C3  
sub  
D1

58. (Amended) A cardiac rhythm management system, including:  
a ventricular sensing circuit for sensing ventricular beats;  
a controller, obtaining V-V intervals between ventricular beats and computing a first indicated pacing interval, for a most recent V-V interval concluded by a paced beat and for a most recent V-V interval concluded by a sensed beat, by averaging a most recent V-V interval duration with a stored previously-computed value of the first indicated pacing interval; and  
a ventricular therapy circuit, providing pacing therapy based on the first indicated pacing interval.

C4  
sub  
D1

63. (Amended) A cardiac rhythm management system, including:  
a ventricular sensing circuit;  
a controller, the controller including:  
a V-V interval timer;  
a first register, for storing a first indicated pacing interval;  
a filter, updating the first indicated pacing interval, for a most recent V-V interval concluded by a paced beat and for a most recent V-V interval concluded by a sensed beat, by averaging the most recent V-V interval stored in the V-V interval timer with the previously-computed stored value of first indicated pacing interval stored in the first register; and  
a ventricular therapy circuit, providing pacing therapy based at least partially on the first indicated pacing interval.

- Sub  
D1  
CS  
cont
91. (Amended) A cardiac rhythm management system, including:  
a ventricular sensing circuit;  
a controller, the controller including:  
a V-V interval timer;  
a first register, for storing a first indicated pacing interval;  
means for updating the first indicated pacing interval, for a most recent V-V interval concluded by a paced and for a most recent V-V interval concluded by a sensed beat, by averaging a most recent V-V interval duration with a stored previously-computed value of the first indicated pacing interval; and  
a ventricular therapy circuit, providing pacing therapy based at least partially on the first indicated pacing interval.